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IV. *A Catalogue of Eclipses of Jupiter's Satellites for the Year 1733.* By James Hodgson, F. R. S. Master of the Royal Mathematical School at Christ's Hospital, London.

ECLIPSES of the first Satellite of JUPITER.

Immersions.				Immersions.				Immersions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY				10	1	26	39	24	12	58	26*
2	3	7	56	11	19	55	7	26	7	27	25
3	21	35	41	13	14	23	42*	28	1	56	24
5	16	3	26*	15	8	52	20	29	20	25	20
7	10	31	12	17	3	21	00	31	14	54	15*
9	4	59	1	18	21	49	40	APRIL.			
10	23	26	54	20	16	18	22*	2	9	23	10*
12	17	54	48*	22	10	47	8	4	3	52	7
14	12	22	44	24	5	15	54	5	22	21	4
16	6	50	41	25	23	44	44	7	16	49	59*
18	1	18	42	27	18	13	32	9	11	18	53*
19	19	46	47	MARCH.				11	5	47	45*
21	14	14	53*	1	12	42	21*	13	00	16	36
23	8	43	2	3	7	11	15	Emergions.			
25	3	11	15	5	1	40	11	14	20	53	44
26	21	39	31	6	20	9	7	16	15	22	33*
28	16	7	50*	8	14	38	2*	18	9	51	22*
30	10	36	12	10	9	6	58	20	4	20	8
FEBRUARY.				12	3	35	54	21	22	48	53
1	5	4	37	13	22	4	50	23	17	17	34
2	23	33	00	15	16	33	45*	25	11	46	3*
4	18	1	25*	17	11	2	41*	27	6	14	53
6	12	29	50*	19	5	31	36	29	00	43	32
8	6	58	14	21	00	00	32	30	19	12	11
				22	18	29	28	MAY			

## ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
MAY.				19	8	26	55	6	3	21	16
				21	2	55	19	7	21	50	18
				22	21	23	42	9	16	19	21
2	13	40	50*	24	15	52	7*	11	10	48	26
4	8	9	28*	26	10	20	34*	13	5	17	34
6	2	38	3	28	4	49	2	14	23	46	44
7	21	6	34	29	23	17	30	16	18	16	00
9	15	35	2*					18	12	45	18
11	10	3	32*	JULY.				20	7	14	40*
13	4	32	2					22	1	44	00
14	23	00	32	1	17	45	58	23	20	13	16
16	17	29	00	3	12	14	28*	25	14	42	33
18	11	57	25*	5	6	42	56	27	9	11	46
20	6	25	49	7	1	11	27	29	3	40	56
22	00	54	12	8	19	40	1	30	22	10	3
23	19	22	33	10	14	8	35*	SEPTEMBER.			
25	13	50	52*	12	8	37	11				
27	8	19	8*	14	3	5	51				
29	2	47	26	15	21	34	34	1	16	39	14
30	21	15	45*	17	16	3	20*	3	11	8	31
				19	10	32	8*	5	5	37	50
				21	5	00	59	7	00	7	6
				22	23	29	51	8	18	36	24
				24	17	58	43	10	13	5	41
				26	12	27	37*	12	7	35	00
				28	6	56	29	14	2	4	17
				30	1	25	22	15	20	33	33
				31	19	54	14	17	15	2	47
								19	9	31	56
				AUGUST.				21	4	1	1
								22	22	30	4
				2	14	23	11	24	16	59	7
				4	8	52	13*	26	11	28	9

## ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Immerfions.				Immerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
28	5	57	11*	NOVEMBER.				6	4	11	43
30	00	26	13	Immerfions.				7	22	39	13
OCTOBER.				Jupiter and the Sun				9	17	6	42*
1	18	55	13	in Conjunction.				11	11	34	10
3	13	24	12					13	6	1	37
5	7	53	10	23	18	58	20*	15	00	29	2
7	2	22	6	25	13	26	2	16	18	56	27*
8	20	51	00	27	7	53	43	18	13	23	52
10	15	19	52	29	2	21	22	20	7	51	18
Jupiter and the Sun				30	20	49	1	22	2	18	51
in Conjunction.				DECEMBER.				23	20	46	29
				2	15	16	37	25	15	14	5
				4	9	44	12	27	9	41	41
								29	4	9	17
								30	22	36	55

## ECLIPSES of the second Satellite of JUPITER.

Immerfions.				Immerfions.				Immerfions.			
JANUARY.				8	16	53	00*	23	8	31	21
4	4	5	27	12	6	10	32	26	21	49	51
7	17	21	24*	15	19	28	22	30	11	8	14*
11	6	37	34	19	8	46	23	APRIL.			
14	19	53	52	22	22	4	26	3	00	26	36
18	9	10	18	26	11	22	41*	6	13	45	3*
21	22	26	57	MARCH.				10	3	3	29
25	11	43	48	2	00	40	54	13	16	21	40*
29	1	00	52	5	13	59	18*	Emerfions.			
FEBRUARY.				9	3	17	44	17	8	18	12*
1	14	18	7*	12	16	36	7*	20	21	36	17
5	3	35	32	16	5	54	33	24	10	54	12*
				19	19	12	55	28	00	12	00
				U u				MAY.			

## ECLIPSES of the second Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
MAY.				22	7	10	55	8	12	4	10
				25	20	29	13	12	1	22	26
				29	9	47	31*	Jupiter and the Sun in Conjunction.			
1	13	29	45*	AUGUST.							
5	2	47	36								
8	16	5	10					NOVEMBER.			
12	5	22	40	1	23	5	50				
15	18	40	11	5	12	24	28				
19	7	57	34	9	1	43	4	IMMERFIONS.			
22	21	14	51	12	15	1	47				
26	10	31	58*	16	4	20	43				
29	23	49	7	19	17	39	54	23	14	9	1
JUNE.				23	6	59	5*	27	3	24	52
				26	20	18	7	30	16	40	35
2	13	6	20*	30	9	36	59	DECEMBER.			
6	2	23	16	SEPTEMBER.							
9	15	40	20								
13	4	57	26	2	22	55	58	4	5	56	29
16	18	14	34	6	12	15	10	7	19	12	14*
20	7	31	48	10	1	34	19	11	8	27	42
23	20	49	8	13	14	53	27	14	21	43	11
27	10	6	33*	17	4	12	32	18	10	58	42
30	22	24	1	20	17	31	23	22	00	14	23
JULY.				24	6	50	3	25	13	30	5
				27	20	8	41	29	2	45	56
4	12	41	31*	OCTOBER.				JANU-			
8	1	59	5								
11	15	16	47	1	9	27	16				
15	4	34	37	4	22	45	46				
18	17	52	41								

## ECLIPSES of the third Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
<b>JANUARY.</b>		
Immersions.		
6 13 17 41		
13 17 13 16*		
20 21 9 29		
28 1 6 31		
Emersions.		
6 15 39 13*		
13 19 34 18*		
20 23 30 1		
28 3 26 33		
<b>FEBRUARY.</b>		
Immersions.		
4 5 4 23		
11 9 2 32		
18 13 00 34*		
25 17 1 7*		
Emersions.		
4 7 23 55		
11 11 21 34		
18 15 20 6*		
25 19 19 9		
<b>MARCH.</b>		
Immersions.		
4 21 1 1		
12 1 1 7		
19 5 1 11		
26 9 1 14		
3 13 1 17		
10 17 1 20		
17 21 1 23		
24 25 1 26		
31 29 1 30		
<b>APRIL.</b>		
Immersions.		
2 13 1 24*		
9 17 1 23		
Jupiter and the Sun in Conjunction.		
16 23 16 22		
24 3 15 24		
<b>MAY.</b>		
Immersions.		
22 16 53 42		
29 20 51 17		
Emersions.		
1 7 13 28		
8 11 11 55*		
15 15 10 1		
22 19 7 48		
29 23 5 9		
U u 2		
<b>JUNE.</b>		
Immersions.		
6 00 48 45		
13 4 46 14		
20 8 43 57*		
27 12 42 1*		
Emersions.		
6 3 2 1		
13 6 59 34		
20 10 57 1*		
27 14 54 51		
<b>JULY.</b>		
Immersions.		
4 16 40 16		
11 20 38 46		
19 00 37 59		
26 4 37 44		
Emersions.		
4 18 52 58		
12 22 51 22		
19 2 50 29		
26 6 50 10		
<b>AUGUST.</b>		
Immersions.		
2 8 37 36*		
9 12 38 1		
16 16 38 56		
23 20 40 27		
31 00 41 30		
<b>AUGUST.</b>		

## ECLIPSES of the third Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.	
AUGUST.			
Emerfions.			
2 10 50 00	14 10 56 44	25 00 27 56	
9 14 50 23	21 14 57 46	Jupiter and the Sun in Conjunction.	
16 18 51 16	28 18 58 16		
OCTOBER.			
23 22 52 45	Jupiter and the Sun in Conjunction.		
31 2 53 46	Immerfions.		
SEPTEMBER.			
Immerfions.			
7 4 42 52	Emerfions.		
14 8 44 18	5 22 58 33	DECEMBER.	
21 12 45 16	13 2 58 21	Immerfions.	
NOVEMBER.			
Immerfions.			
7 6 55 12*	17 20 32 50	2 4 22 45	
		9 8 17 11	
		16 12 11 11	
		23 16 5 27	
		30 20 00 18*	
		23 18 20 49*	
		30 22 15 00	

The fourth Satellite continues to pafs wide of the Shadow, fo that he will not be eclipsed this Year.

N. B. *Those that are marked with a Star, are visible at London.*